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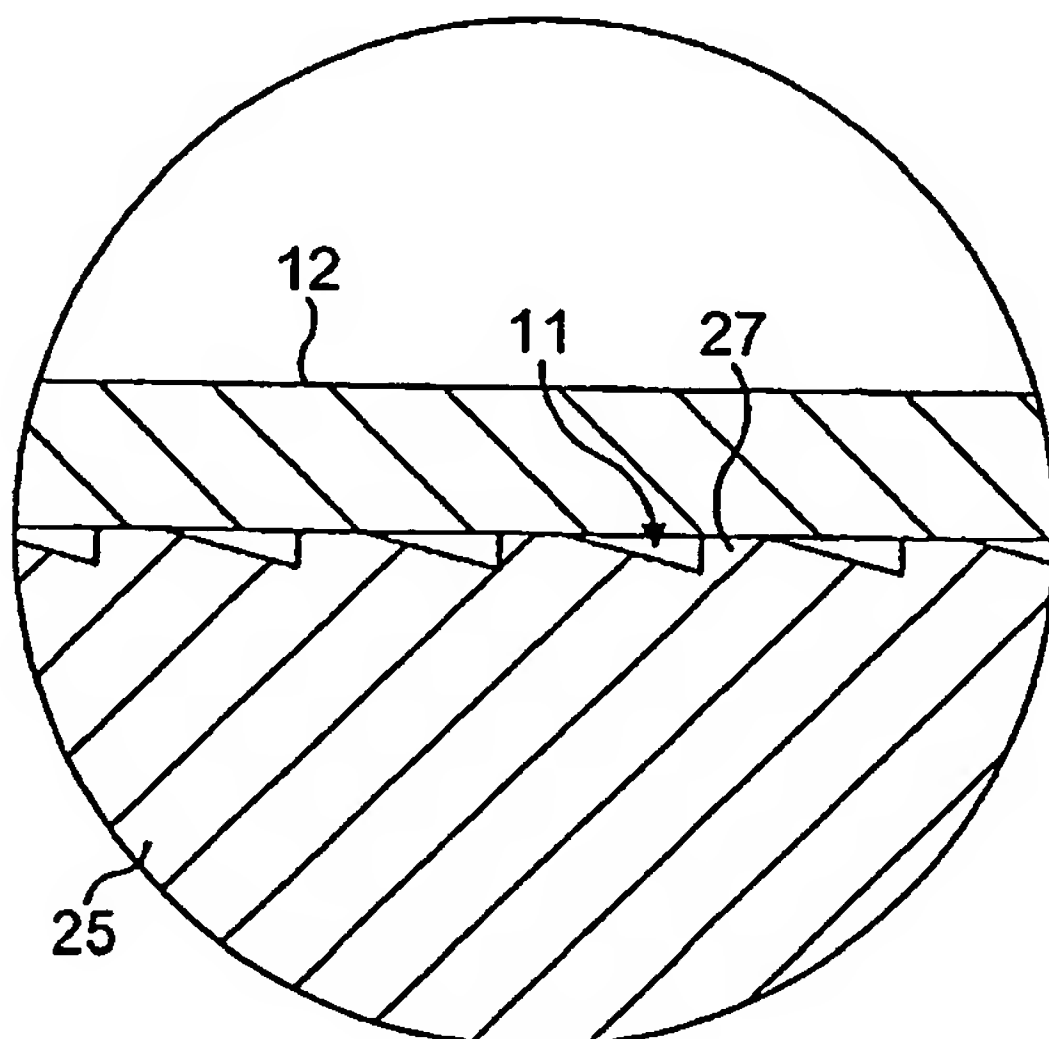
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(54) Title: **SENSOR**



(57) Abstract: A physiological sensing device comprises an electrical sensor (4) for insertion into the tissue of a live animal and which measures the partial pressure of carbon dioxide in the animal tissue. The device also includes an electrical cable (6) connected electrically at its distal end to the sensor (4). The cable (6) is surrounded by a sheath (28). The sheath (28) has several flexible portions (30) separated by longitudinal slits (29). Movement of the proximal end of the sheath (28) towards its distal end shortens the distance between the ends of the flexible portions (30) and causes them to bow outwardly. The sensor (4) can be retained in animal tissue by the bowed flexible portions (30).